

APPENDIX L: GUIDE FOR REVIEW OF DNA DATA	Page 1 of 1
QUALITY ASSURANCE PROGRAM DNA TYPING OF BIOLOGICAL MATERIALS - FORENSIC BIOLOGY SECTION PROCEDURE MANUAL, SECTION VI	Issue No.: 4
	Effective Date: 17-November-2006
<p style="text-align: center;"><u>Guide for Review of DNA Data</u></p> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p>Extraction worksheet</p> <ul style="list-style-type: none"> • Samples extracted from low to hi • Knowns extracted separately from unknowns • Appropriate reagent blanks used • Extraction method specified <p>BioMek worksheet</p> <ul style="list-style-type: none"> • Lot #s recorded • Samples & controls in proper location • Plate control results documented, if data not included • Operator actions initialed <p>AhiQuant worksheet</p> <ul style="list-style-type: none"> • Operator actions initialed • Calculated quantitations accurate • Extrapolated values recorded for >4ng/ul samples • Proper documentation present if STD curve adjusted • Lot #s / Expiration dates recorded <p>Reagent/Amplification worksheet</p> <ul style="list-style-type: none"> • Lot # s & expiration dates recorded • Dilution/Amplification date recorded • TC # & QC date recorded <p>Product gel/dilutions worksheet</p> <ul style="list-style-type: none"> • Lot #s recorded • Interpretation results recorded • Photograph/scan present and appropriately labeled • Loading volume appropriate, if recorded • Dilutions recorded, if not documented elsewhere <p>Gel Data worksheet</p> <ul style="list-style-type: none"> • Lot #s recorded • Gel prep and run parameters • Proper controls • Gel loaded in accordance with protocol • Sizing lanes designed, if applicable <p>Scanned images</p> <ul style="list-style-type: none"> • Scanning parameters printed, if possible • Gel # documented <p>Final images</p> <ul style="list-style-type: none"> • Scanning parameters printed, if possible • Gel # documented • Lanes labeled </div> <div style="width: 50%;"> <ul style="list-style-type: none"> • BT bands addressed, if not done so in STaRCall • Controls evaluated, proper action taken if expected values not obtained <p>Look-up tables</p> <ul style="list-style-type: none"> • Gel # documented • bp values accurate • Microvariant documented, if appropriate <p>STaRCall worksheets</p> <ul style="list-style-type: none"> • Gel # documented • Lane designations accurate • BT, ART, ??, and ST designations accurate • Out of range values addressed including loci <p>Landscape worksheet</p> <ul style="list-style-type: none"> • Gel # documented • Controls evaluated, proper action taken if expected values not obtained • Changes match STaRCall • INC loci on STaRCall addressed on landscape • Verified against gel image, including intensity differences • Differences in calls between sizers addressed <p>2nd sizer look-up tables, STaRCall, Landscape</p> <ul style="list-style-type: none"> • Gel # documented • Consistent with examiner data • Landscape verified by examiner <p>CODIS search result printouts</p> <ul style="list-style-type: none"> • Staff index search conducted, if appropriate • Local and state search sheets included, if appropriate • Proper indices searched • Matches properly evaluated and documented • Appropriate allele values used <p>Specimen detail report printouts</p> <ul style="list-style-type: none"> • All appropriate samples entered into CODIS • Appropriate specimen nomenclature used • Appropriate specimen category assigned • Source ID appropriately chosen, if applicable • Correct alleles entered for specimen • Reported NDIS suitability consistent with data entry <p>Statistics</p> <ul style="list-style-type: none"> • Appropriate calculation used • For LR, appropriate assumptions made • Correct allele entered • Sample description/identification listed • Reported value listed on printout </div> </div> <p style="text-align: right;">◆END</p>	